

HHH	HHH	LLL	DDDDDDDDDDDD
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HHH	HHH	LLL	DDDDDDDDDDDD

FILE ID**HLD,FILE

K 1

1

0000 1 .TITLE HLDFILE .. HLD FILE I/O
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6
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0000 24
0000 25
0000 26 *****
0000 27
0000 28
0000 29 **
0000 30 : FACILITY: DECNET HOST LOADER (HLD)
0000 31
0000 32 : ABSTRACT:
0000 33
0000 34 : HLD IS A COMPONENT OF DECNET/VAX-11. IT PROVIDES ACCESS TO
0000 35 : RSX11S TASK IMAGES STORED ON A VAX SYSTEM.
0000 36
0000 37 : ENVIRONMENT:
0000 38
0000 39 : THE HLD IMAGE EXECUTES IN THE CONTEXT OF A PROCESS CREATED BY
0000 40 : NETACP. IT RUNS IN USER MODE AND REQUIRES NETWORK PRIVILEGE.
0000 41
0000 42 : AUTHOR: SCOTT G. DAVIS, CREATION DATE: 23-MAY-79
0000 43
0000 44 : MODIFICATIONS:
0000 45
0000 46 : V001 SGD0002 19-Mar-1984
0000 47 : Add error message for improper connect from SLD
0000 48 :--
0000 49
0000 50 : INCLUDE FILES
0000 51
0000 52 : \$HLDDEF
0000 53
0000 54 : MACROS:
0000 55
0000 56 : NONE

0000 58 :
0000 59 : LOCAL DATA
0000 60 :
00000000 61 .PSECT HLD\$PURE NOSHR,NOEXE,RD,NOWRT,LONG
0000 62 :
24 42 54 44 4C 48 00000008'010E0000' 0000 63 FIRST RECORD: .ASCID /HLDTBS\$/ : THIS SHOULD MATCH THE 1ST REC IN HLD.DAT
24 48 53 41 54 48 00000016'010E0000' 000E 64 TASK_FLAG: .ASCID /HTASK\$/ : FOR TASK ENTRIES
24 45 44 4F 4E 48 00000024'010E0000' 001C 65 NODE_FLAG: .ASCID /HNODE\$/ : FOR NODE ENTRIES
44 4E 45 2E 00000032'010E0000' 002A 66 END_FLAG: .ASCID /.END/ : FOR END-OF-FILE
50 41 4D 0000003E'010E0000' 0036 67 MAP_STRING: .ASCID /MAP/ : FOR TASK TYPE MATCH
4D 4E 55 00000049'010E0000' 0041 68 UNM_STRING: .ASCID /UNM/ : DITTO
4E 55 4C 00000054'010E0000' 004C 69 LUN_STRING: .ASCID /LUN/ : DITTO

```

00000000 71 .PSCT HLD$CODE      NOSHR,EXE,RD,NOWRT
00000000 72
00000000 73 :++
00000000 74 : FUNCTIONAL DESCRIPTION:
00000000 75
00000000 76 : HLD$GET_FILE OPENS SYSSYSTEM:HLD.DAT AND SCANS IT FOR THE
00000000 77 : REQUIRED TASK.
00000000 78
00000000 79 : INPUTS:
00000000 80
00000000 81 :     R1 - POINTS TO OPTIONAL DATA FIELD
00000000 82
00000000 83 : OUTPUTS:
00000000 84
00000000 85 :     R11 - POINTS TO OPTDATA FIELD AFTER TASK NAME
00000000 86 :     HLD$GW_SAVEFUNC - SAVES I/O FUNCTION FOR TRANSFER
00000000 87
00000000 88 :--
00000000 89
00000000 90 : .ENABLE LOCAL_BLOCK
00000000 91 HLD$GET_FILE:: : ENTRY POINT
00000000 92
00000000 93 : VALIDATE THE CONNECT PARAMETERS
00000000 94
00000000 95

56 61 90 0000 96 MOVB (R1),R6      : Get no. of bytes of userdata
81 03 90 0003 97 MOVB #3,(R1)+  : 3 bytes going back
51 DD 0006 98 PUSHL R1      : Save base of OPTDATA
FFF5' 30 0008 99 BSBW HLD$C5TA : DECODE THE TASK NAME
0000'CF 0000'CF 9E 000E 100 POPL R11     : Restore base of OPTDATA
01 00'AB 91 0015 101 MOVAB W^HLD$GT_INVALID,W^HLD$GT_OPER : ASSUME INVALID REQUEST
67 1A 0019 102 CMPB B^HLD$B_CUN_FLAG(R11),#1 : FIELD IN RANGE?
52 00'AB 9A 001B 103 BGTRU 90$      : IF GTRU NO
0E 56 91 001F 104 MOVZBL B^HLD$B_REQUEST(R11),R2 : GET THE REQUEST
5E 12 0022 105 CMPB R6,#14    : RIGHT AMOUNT OF USERDATA?
52 96 0024 106 BNEQ 90$      : IF NEQ NO - INVALID CONNECT
1A 13 0026 107 INCB R2      : NORMALIZE
03 52 91 0028 108 BEQL 5$      : IF EQL OVERLAY REQUEST
55 1A 002B 109 CMPB R2,#3    : FIELD IN RANGE (-1 TO +2)?
13 12 002D 110 BGTRU 90$      : IF GTRU NO
0000'CF 0000'CF 9E 002F 111 BNEQ 5$      : IF NEQ NOT CHECKPOINT WRITE
0000'CF 0000'CF 9E 0036 112 MOVAB W^HLD$NET_IO,W^HLD$GL_IROUT1 : FIRST, GET NET DATA
0000'CF 0000'CF 9E 003D 113 MOVAB W^HLD$DISK_WRITE,W^HLD$GL_IROUT2 : THEN DO DISK OPERATION
0000'CF 00' 80 003D 114 MOVW S^#IOS_READVBLK,W^HLD$GW_SAVEFUNC : NETWORK DOES READ
0000'CF 0000'CF42 DD 0042 115 5$:
0000'CF 0000'CF42 DD 0042 116 MOVL W^HLD$AT_REQ_TYPE[R2],W^HLD$GT_OPER : SAVE PTR TO NAME OF REQUEST
0000'CF 0000'CF42 DD 004A 117
0000'CF 0000'CF42 DD 004A 118 : NOW OPEN HLD.DAT AND SCAN IT FOR WHAT IS NEEDED
0000'CF 0000'CF42 DD 004A 119
50 0000'CF 9E 004A 120 MOVAB W^HLD$DATFAB,RO : SET TO OPEN FILE
50 0000'CF 9E 004F 121 BSBW HLD$RMS_OPEN : DO IT
50 0000'CF 9E 0052 122 MOVAB W^HLD$DATRAB,RO : SET TO CONNECT record STREAM
50 0000'CF 9E 0057 123 BSBW HLD$RMS_CONNECT : DO IT
005A 124
005A 125 : PROCESS THE RECORDS
005A 126
0111 30 005A 127 BSBW GET_RECORD : GET THE FIRST RECORD

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58 0000'CF 9L 005D 128
0149 30 0062 129
2D 50 E9 0065 130
0068 131
0068 132 : SCAN FOR GENERAL PURPOSE TASKS
0068 133
013C 30 0068 134 TRY_NEXT_TASK:
1A 50 E9 0068 135 BSBW FIND_TASK
0068 136 BLBC R0,100\$: HAVE A RECORD WITH "HTASKS"?
006E 137 : IF LBC NO - SCAN FOR NODE NAMES
006E 138 : LOOK AT THE GENERAL PURPOSE TASKS FOR A POSSIBLE MATCH
015C 30 006E 140
F4 50 E9 0071 141 BSBW MATCH_TASK
00'AB 95 0074 142 BLBC R0,TRY_NEXT_TASK
OF 13 0077 143 TSTB B^HLD\$B_LUN_FLAG(R11) : CAN SLD HANDLE GENERAL-PURPOSE TASKS?
0000'CF 96 0079 144 BEQL 100\$: If EQL no - try for named nodes
00'AB 95 007D 145 INCB W^HLD\$B_LUNFLAG : General purpose tasks require lun-fixing
4C 15 0080 146 TSTB B^HLD\$B_REQUEST(R11) : Is this a checkpoint operation?
0082 147 BLEQ OPEN_TASK : If LEQ no - proceed
0082 148 : ILLEGAL CONNECT REQUESTED
0082 149
0082 150 90\$: :
56 09 0082 151 MOVL #HLD\$C_ERR_REQST,R6 : Illegal request from SLD
00DB 31 0085 152 BRW COMMON_EXIT : Go to common code
0088 153 :
0088 154 : SCAN FOR NODE NAME MATCH
0088 155 :
0088 156 100\$: :
0000'CF 94 0088 157 CLRB W^HLD\$GB_GPFLAG : This is not a general purpose task
00F1 30 008C 158 BSBW RESCAN_RECORD : START AGAIN
0134 30 008F 159 BSBW FIND_NODE : FIND "HNODE\$"
03 50 E8 0092 160 BLBS R0,1TOS : IF LBS OK
00BE 31 0095 161 105\$: BRW FORMAT_ERROR : FILE FORMAT ERROR
00F5 30 0098 162 110\$: :
58 0000'CF 9E 0098 163 BSBW NEXT_FIELD : GET TO THE NAME
010B 30 00A0 164 MOVAB W^HLD\$GQ_NODEDESC,R8 : POINT TO NODE DESCRIPTOR
19 50 E8 00A3 165 BSBW MATCH_STRING : SEE IF THERE IS A MATCH
00A6 166 BLBS R0,150\$: TRY FOR TASK NAME
00C5 30 00A6 167 120\$: :
011A 30 00A9 168 BSBW GET_RECORD : READ NEXT HLD.DAT RECORD
E9 50 E8 00AC 169 BSBW FIND_NODE : SEARCH FOR A HNODE\$ RECORD
00CE 30 00AF 170 BLBS R0,1TOS : IF LBS FOUND
58 002A'CF 9E 00B2 172 MOVAB W^END_FLAG,R8 : START AGAIN
00F4 30 00B7 173 BSBW MATCH_STRING : SEE IF AT END OF FILE
08 50 E8 00BA 174 BLBS R0,160\$: MATCH WITH ".END"
E7 11 00BD 175 BRB 120\$: IF LBS MATCH - COULDN'T FIND MATCH
00BF 176 : TRY FOR HNODE\$
00BF 177 : NODE FOUND - TRY FOR TASK MATCH
00BF 178 :
00BF 179 150\$: :
00E5 30 00BF 180 BSBW FIND_TASK : LOOK FOR "HTASK\$"
03 50 E8 00C2 181 BLBS R0,170\$: IF LBS PROCEED
0098 31 00C5 182 160\$: BRW SEARCH_FAILURE : COULDN'T FIND WHAT I WANTED
0102 30 00C8 183 170\$: BSBW MATCH_TASK : IS THIS THE RIGHT TASK?

F1 50	E9 00CB	185	BLBC R0,150\$; IF LBC NO - TRY FOR ANOTHER	
	00CE	186			
	00CE	187	.DISABLE LOCAL_BLOCK		
	00CE	188			
	00CE	189			
	00CE	190	: TASK FOUND - GET READY TO OPEN UP THE FILE		
	00CE	191			
	00CE	192	OPEN_TASK:		
	51	D6 00CE	193	INCL R1	; MOVE PAST COMMA
3C	00BD	30 00D0	194	BSBW NEXT_FIELD	DO IT
	81	91 00D3	195	(R1)T, #^A/ </	IS THIS THE RIGHT DELIMITER
	1D	12 00D6	196	BNEQ 20\$	IF NEQ ERROR
0000'CF	51	D0 00D8	197	MOVL R1, W^HLD\$GL_TSKFNA	PRESERVE PTR TO FILESPEC
61	3F	3A 00DD	198	LOCC #^A? > ?, #63, (R1)	FIND THE TERMINATOR
0000'CF	78	13 00E1	199	BEQL SYNTAX_ERROR	IF EQL NOT FOUND
3F	50	83 00E3	200	SUBB3 R0, #63, W^HLD\$GB_TSKFNS	GET LTH OF FILESPEC
	51	D6 00E9	201	INCL R1	MOVE PAST ">"
	00A2	30 00EB	202	BSBW NEXT_FIELD	FIND NEXT FIELD
	50	B5 00EE	203	TSTW R0	WAS THE RECORD EATEN?
	58	13 00F0	204	BEQL DONE	IF EQL yes
2C	81	91 00F2	205	CMPB (R1)+, #^A, ..	NEXT DELIMITER OK?
	64	12 00F5	206	BNEQ SYNTAX_ERROR	IF NEQ NO
	0096	30 00F7	207	BSBW NEXT_FIELD	MOVE TO NEXT FIELD
58	0036'CF	9E 00FA	208	MOVAB W^MAP_STRING, R8	SET TO FIND FILE TYPE
	51	DD 00FF	209	PUSHL R1	SAVE THE POINTER FOR A LIMITED RESCAN
	00AA	30 0101	210	BSBW MATCH_STRING	TRY MATCH
	12 50	E8 0104	211	BLBS R0, 35\$	IF LBS 'MAP'
58	51	6E D0	0107	MOVL (SP), R1	RESTORE PTR
	0041'CF	9E 010A	213	MOVAB W^UNM_STRING, R8	TRY 'UNM'
	009C	30 010F	214	BSBW MATCH_STRING	DO IT
	21 50	E9 0112	215	BLBC R0, 80\$	If LBC not 'UNM'
0000'CF	96	0115	216	INC B W^HLD\$GB_MAPFLAG	SET 'UNM'
		0119	217	35\$:	
0000'CF	95	0119	218	TSTB W^HLD\$GB_GPFLAG	Is this a general-purpose task?
37	13	011D	219	BEQL FORMAT_ERROR	If EQL no - can't mix types
0000'CF	95	011F	220	TSTB W^HLD\$GB_MAPFLAG	Mapped task?
07	13	0123	221	BEQL 60\$	If EQL yes
00'AB	85	0125	222	TSTW B^HLD\$W_PART_ADDR(R11)	Mapped task requested?
07	13	0128	223	BEQL 70\$	If EQL yes, but this ain't it
1C	11	012A	224	BRB 100\$	Finish in common code
00'AB		012C	225	60\$:	
17	13	012F	226	TSTW B^HLD\$W_PART_ADDR(R11)	Mapped task requested?
	0131	227	BEQL 100\$	If EQL yes - proceed	
8E	D5	0131	228	70\$:	
FF32	31	0133	230	TSTL (SP)+	Clean up the stack
	0136	231	80\$:	BRW TRY_NEXT_TASK	Keep looking for task
58	51	6E D0	0136	MOVL (SP), R1	
004C'CF	9E	0139	232	MOVAB W^LUN_STRING, R8	TRY "LUN"
006D	30	013E	233	BSBW MATCH_STRING	MATCH?
17 50	E9	0141	234	BLBC R0, SYNTAX_ERROR	IF LBC NO
0000'CF	96	0144	235	INC B W^HLD\$GB_UNFLAG	SET "LUN"
	0148	236	100\$:		
8E	D5	0148	237	TSTL (SP)+	CLEAN UP STACK
	014A	238			
	014A	239			
	014A	240	DONE:		
	014A	241	\$CLOSE FAB=W^HLD\$DATFAB	CLOSE THE DATA FILE	

05 0155 242 RSB ; DONE
0156 243
0156 244 FORMAT_ERROR:
56 01 00 0156 245 MOVL #HLDSC_ERR_FORMAT,R6 ; FORMAT ERROR
08 11 0159 246 BRB COMMON_EXIT ; GO TO COMMON EXIT
015B 247
015B 248 SYNTAX_ERROR:
56 02 00 015B 249 MOVL #HLDSC_ERR_SYNTX,R6 ; SYNTAX ERROR
03 11 015E 250 BRB COMMON_EXIT ; GO TO COMMON CODE
0160 251
0160 252 SEARCH_FAILURE:
56 03 00 0160 253 MOVL #HLDSC_ERR_SEARCH,R6 ; FILE NOT FOUND
0000'CF 56 90 0163 254 COMMON_EXIT:
50 00 00 0168 255 MOVB R6,W^HLD\$GB_ERRORFLG ; SAVE THE ERROR CODE
FE92' 31 016B 256 MOVL S^\$SS\$ NORMAL,R0 ; S\$SS\$ NORMAL,R0
BRW HLD\$EXIT_TO_VMS ; No more messages in LOG

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016E 258 ++
016E 259
016E 260 GET_RECORD - THIS ROUTINE GETS A RECORD FROM THE OPEN FILE AND RETURNS
016E 261 THE LENGTH AND ADDRESS OF THE RECORD.
016E 262
016E 263 RESCAN_RECORD - THIS ROUTINE RESETS TO THE BEGINNING OF THE
016E 264 CURRENT RECORD.
016E 265
016E 266 NEXT_FIELD - THIS ROUTINE IGNORES BLANKS AND TABS
016E 267
016E 268 INPUTS:
016E 269
016E 270 HLD$DATRAB (GET_RECORD, RESCAN_RECORD)
016E 271 R0,R1 - DESCRIPTOR OF REMAINDER OF RECORD (NEXT_FIELD)
016E 272
016E 273 OUTPUTS:
016E 274
016E 275 R0 - REMAINING CHARACTERS IN RECORD
016E 276 R1 - POINTER TO FIRST NON-BLANK, NON-TAB CHARACTER IN RECORD
016E 277
016E 278 --
016E 279
016E 280 GET_RECORD:
016E 281 $GET RAB=W^HLD$DATRAB : GET THE FIRST RECORD
016E 282 CHECK_RMS : SEE IF OK
016E 283 TSTL R1 : END-OF-FILE?
016E 284 BEQL FORMAT_ERROR : IF EQL YES - JUST GO AWAY
016E 285
016E 286 RESCAN_RECORD:
016E 287 MOVZWL W^HLD$GW_DATRSZ,R0 : SET UP RECORD LENGTH
016E 288 MOVL W^HLD$GL_DATRBF,R1 : SET UP RECORD POINTER
016E 289 ADDL3 R0,R1,W^HLD$GL_RECEND : POINT TO END OF RECORD
016E 290
016E 291
016E 292 NEXT_FIELD:
016E 293 SUBL3 R1,W^HLD$GL_RECEND,R0 : COMPUTE CHARS LEFT IN RECORD
016E 294 10$: CMPB (R1),#^X20 : BLANK?
016E 295 BEQL 15$ : IF EQL YES
016E 296 CMPB (R1),#^X9 : TAB?
016E 297 BNEQ 20$ : IF NEQ NO - DONE
016E 298
016E 299 15$: INCL R1 : MOVE THE POINTER
016E 300 DECL R0 : ANOTHER CHARACTER EATEN
016E 301 BNEQ 10$ : IF NEQ MORE CHARS IN RECORD
016E 302
016E 303 20$: RSB : DONE
016E 304

```

01A7 306 ++
 01A7 307
 01A7 308 FIND_TASK - FIND A RECORD WITH A TASK DESCRIPTOR IN IT (HTASK\$)
 01A7 309
 01A7 310 OUTPUTS:
 01A7 311 R0 - LBS=>SUCCESS, LBC=>FAILURE
 01A7 312
 01A7 313 ;--
 01A7 314
 01A7 315 FIND_TASK:
 58 000E'CF 10 01A7 316 BSB B GET_RECORD ; FETCH A RECORD
 9E 01A9 317 MOVAB W^TASK_FLAG,R8 ; SET TO MATCH 'HTASK\$'
 01AE 318
 01AE 319
 01AE 320 ;++
 01AE 321
 01AE 322 MATCH_STRING - MATCH A STRING EXACTLY
 01AE 323
 01AE 324 INPUTS:
 01AE 325 R1 - POINTER TO ONE STRING
 01AE 326 R8 - ADDRESS OF DESCRIPTOR OF STRING TO MATCH
 01AE 327 HLD\$GL_RECEND - FOR COMPUTING MAX NO. OF CHARS THAT CAN BE LEFT
 01AE 328
 01AE 329 OUTPUTS:
 01AE 330 R0 - LBS=>SUCCESS, LBC=>FAILURE
 01AE 331
 01AE 332 ;--
 01AE 333
 01AE 334 MATCH_STRING:
 50 0000'CF 51 C3 01AE 335 SUBL3 R1,W^HLD\$GL_RECEND,R0 ; COMPUTE MAX NO. OF CHARS LEFT
 68 50 B1 01B4 336 CMPW R0,(R8) ; ENOUGH TO MATCH?
 04 88 61 68 29 01B7 337 BLSSU 100\$; IF LSSU NO
 0A 1F 01B9 338 CMPC3 (R8),(R1),@4(R8) ; MATCH?
 03 12 01BE 339 BNEQ 100\$; IF NEQ NO
 50 D6 01C0 340 INCL R0 ; SUCCESS
 05 01C2 341 RSB ; DONE
 01C3 342 100\$: CLRL R0 ; FAILURE
 50 D4 01C3 343 RSB ; DONE
 05 01C5 344
 01C6 345
 01C6 346
 01C6 347 ;++
 01C6 348
 01C6 349 FIND_NODE - FIND A RECORD WITH A NODE DESCRIPTOR IN IT (HNODE\$)
 01C6 350
 01C6 351 OUTPUTS:
 01C6 352 R0 - LBS=>SUCCESS, LBC=>FAILURE
 01C6 353
 01C6 354 ;--
 01C6 355
 01C6 356 FIND_NODE:
 58 001C'CF 9E 01C6 357 MOVAB W^NODE_FLAG,R8 ; SET TO MATCH 'HNODE\$'
 E1 11 01CB 358 BRB MATCH_STRING ; TRY FOR MATCH AND RETURN
 01CD 359
 01CD 360 ;++
 01CD 361
 01CD 362 ; MATCH_TASK - THIS ROUTINE MATCHES THE REQUESTED NAME WITH ONE IN THE FILE

01CD 363 :
 01CD 364 : OUTPUTS:
 01CD 365 : R0 - LBS=>SUCCESS, LBC=>FAILURE
 01CD 366 :--
 01CD 367 :--
 01CD 368 :
 01CD 369 MATCH_TASK:
 61 07 C1 10 01CD 370 BSB8 NEXT_FIELD : FIND START OF TASK NAME
 51 DD 01CF 371 PUSHL R1 : SAVE POINTER
 2C 3A 01D1 372 LOCC #^A/, /, #7, (R1) : FIND THE DELIMITER
 02 BA 01D5 373 POPR #^M<R1> : RESTORE POINTER
 03 12 01D7 374 BNEQ 10\$: IF NEQ FOUND
 FF7F 31 01D9 375 BRW SYNTAX_ERROR : SYNTAX ERROR
 50 07 50 A3 01DC 376 10\$: SUBW3 R0, #7, R0 : COMPUTE LENGTH OF NAME IN RECORD
 06 50 B1 01E0 377 CMPW R0, #6 : TOO BIG?
 10 1A 01E3 378 BGTRU 100\$: IF GTRU YES
 61 50 20 0001'CF 06 2D 01E5 380 CMPCS #6 W^HLD\$AT_TSKBUF+1, #^X20, R0, (R1) : TRY TO MATCH TASK NAME
 06 12 01ED 381 BNEQ 100\$: IF NEQ FAILED
 50 D6 01EF 382 INCL R0 : INDICATE SUCCESS
 51 53 00 01F1 383 MOVL R3, R1 : RESTORE POINTER
 05 01F4 384 RSB : DONE
 01F5 385 100\$: 50 D4 01F5 386 CLRL R0 : INDICATE FAILURE
 05 01F7 387 RSB : RETURN
 01F8 388
 01F8 389 .END

SS.TMP1	=	00000001				
SS.TMP2	=	0000000F				
COMMON_EXIT		00000163	R	03		
DONE		0000014A	R	03		
END_FLAG		0000002A	R	02		
FIND_NODE		000001C6	R	03		
FIND_TASK		000001A7	R	03		
FIRST_RECORD		00000000	R	02		
FORMAT_ERROR		00000156	R	03		
GET_RECORD		0000016E	R	03		
HLD\$AT_REQ_TYPE	*****		X	03		
HLD\$AT_TSKBUF	*****		X	03		
HLD\$B_LUN_FLAG	*****		X	03		
HLD\$B_REQUEST	*****		X	03		
HLD\$C5TA	*****		X	03		
HLD\$CHECK_RMS	*****		X	03		
HLD\$C_ERR_FORMAT	=	00000001				
HLD\$C_ERR_REQST	=	00000009				
HLD\$C_ERR_SERCH	=	00000003				
HLD\$C_ERR_SYNTX	=	00000002				
HLD\$DATFAB	*****		X	03		
HLD\$DATRAB	*****		X	03		
HLD\$DISK_WRITE	*****		X	03		
HLD\$EXIT_TO_VMS	*****		X	03		
HLD\$GB_ERRORFLG	*****		X	03		
HLD\$GB_GPFLAG	*****		X	03		
HLD\$GB_LUNFLAG	*****		X	03		
HLD\$GB_MAPFLAG	*****		X	03		
HLD\$GB_TSKFNS	*****		X	03		
HLD\$GET_FILE	00000000	RG		03		
HLD\$GL_BATRBF	*****		X	03		
HLD\$GL_IROUT_1	*****		X	03		
HLD\$GL_IROUT_2	*****		X	03		
HLD\$GL_RECEND	*****		X	03		
HLD\$GL_TSKFNA	*****		X	03		
HLD\$GQ_NODEDESC	*****		X	03		
HLD\$GT_INVALID	*****		X	03		
HLD\$GT_OPER	*****		X	03		
HLD\$GW_DATRSZ	*****		X	03		
HLD\$GW_SAVEFUNC	*****		X	03		
HLD\$NET_IO	*****		X	03		
HLD\$RMS_CONNECT	*****		X	03		
HLD\$RMS_OPEN	*****		X	03		
HLD\$W_PRT_ADDR	*****		Y	03		
IOS_READVBLK	*****		X	03		
LUN_STRING	0000004C	R		02		
MAP_STRING	00000036	R		02		
MATCH_STRING	000001AE	R		03		
MATCH_TASK	000001CD	R		03		
NEXT_FIELD	00000190	R		03		
NODE_FLAG	0000001C	R		02		
OPEN_TASK	000000CE	R		03		
RESCAN_RECORD	00000180	R		03		
SEARCH_FAILURE	00000160	R		03		
SS_NORMAL	*****	X		03		
SYNTAX_ERROR	0000015B	R		03		
SYSCLOSE	*****	GX		03		

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
HLD\$PURE	00000057 (87.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
HLD\$CODE	000001F8 (504.)	03 (3.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	39	00:00:00.08	00:00:01.13
Command processing	149	00:00:00.63	00:00:03.29
Pass 1	145	00:00:01.85	00:00:06.00
Symbol table sort	0	00:00:00.06	00:00:00.18
Pass 2	81	00:00:00.89	00:00:03.43
Symbol table output	7	00:00:00.06	00:00:00.52
Psect synopsis output	2	00:00:00.03	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	426	00:00:03.60	00:00:14.58

The working set limit was 1200 pages.

8775 bytes (18 pages) of virtual memory were used to buffer the intermediate code.

There were 10 pages of symbol table space allocated to hold 66 non-local and 21 local symbols.

389 source lines were read in Pass 1, producing 18 object records in Pass 2.

13 pages of virtual memory were used to define 11 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name	Macros defined
\$255\$DUA28:[HLD.OBJ]HLD.MLB;1	2
\$255\$DUA28:[SYSLIB]STARLET.MLB;2	6
TOTALS (all libraries)	8

126 GETS were required to define 8 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$;HLDFILE/OBJ=OBJ\$;HLDFILE MSRC\$;HLDFILE/UPDATE=(ENHS:HLDFILE)+LIB\$;HLD/LIB

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